

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
30 January 2003 (30.01.2003)

PCT

(10) International Publication Number
WO 03/008560 A2

- (51) International Patent Classification⁷: **C12N** (74) Agents: **NAKAMURA, Dean** et al.; Roylance, Abrams, Berdo & Goodman, L.L.P., 1300 19th Street, N.W., Suite 600, Washington, DC 20036 (US).
- (21) International Application Number: **PCT/US02/23208**
- (22) International Filing Date: **19 July 2002 (19.07.2002)** (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
60/306,434 20 July 2001 (20.07.2001) US
0125704.7 26 October 2001 (26.10.2001) GB (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
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- Published:**
— *without international search report and to be republished upon receipt of that report*
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: **A NOVEL G PROTEIN-COUPLED RECEPTOR, GAVE8**

(57) Abstract: Novel GAVE8 polypeptides, proteins, and nucleic acid molecules are disclosed. In addition to isolated, full-length GAVE8 proteins, isolated GAVE8 fusion proteins, antigenic peptides and anti-GAVE8 are provided. The invention also provides GAVE8 nucleic acid molecules, recombinant expression vectors containing the nucleic acid molecule, host cells into which the expression vectors have been introduced and nonhuman transgenic animals in which GAVE8 gene has been introduced or disrupted are described. Diagnostic, screening, and therapeutic methods utilizing GAVE8 compositions or molecules binding GAVE8 also are provided. Methods for identifying GAVE8 agonists, antagonists, inverse agonists and the like are described.

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